

INK JET PRINTER WITH EXTENDED NOZZLE PLATE AND METHOD

ABSTRACT OF THE DISCLOSURE:

The invention provides a micro-fluid ejection head for a micro-fluid ejection device and a method for making a micro-fluid ejection head. The micro-fluid ejection head includes a semiconductor substrate containing fluid ejection devices electrically connected to contact pads on a surface thereof. A TAB circuit including
5 lead beams is electrically connected to the contact pads on the semiconductor substrate surface. A nozzle plate structure is provided and installed relative to the TAB circuit so as to substantially cover the lead beams and contact pads in order to protect the lead beams and contact pads from exposure to fluid ejected by the micro-fluid ejection device. The micro-fluid ejection head is effective to reduce contact
10 between electrical components and the fluid without the use of a separate encapsulant material.